

FIG. 1

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FIG. 2

Acme Router & Rocket, Inc.	ıt, Inc.										
Network		♀	Parent	Address Type	Allocation Type & Order	Aggre- gate	Lending Limits (Min/Max)	Reuse Interval	Description 230	Address Blocks	Block Status
(4) Acme		-	0	lPv4	Rated Fit Low	× 210 /		220	Acme Routers & Rockets 240	→192.168.120.144 /28 →192.168.120.208 /28 192.168.120.224 /30 192.168.120.232 /29 192.168.120.232 /29	Free Free Connection Free Delegated
r -(4) Accounting	nting	က		Pv4	Utilization Fit Low	>-	None	0	Accounting Dept.	192.168.120.128 /29 192.168.120.136 /29	Connection Free
l (4) Engineering	eering	4		Pv4	Utilization Fit Low	>-	None	0	Engineering	192.168.120.64 /26	Connection
1-(4) LAB	œ	2	4	Pv4	Utilization Fit Low	z	None	0.	Lab Area	10.10.10.0 /24	Allocated
ا (4) Headquarters	puarters	7	-	IPv4	Utilization Fit Low	>	None	0	Acme	192.168.120.0 /26	Connection
(4) Manufacturing	acturing	6	-	Pv4	Utilization Fit Low	>-	None	0	Manufacturing		
i - (4) As	i - (4) Assembly Line	10	თ	Pv4	Utilization Fit Low	>	None	0	Assembly Line		
(4) Sales		9		IPv4	Rated Fit Low	>-	/28 -/27	0	Sales Dept.	192.168.120.160/29 192.168.120.168/31 192.168.120.170/31 192.168.120.172/30	Connection Connection Free Connection
(4) Sa	(4) Sales East	7	9	lPv4	Utilization Fit Low	>-	None	0	Eastern Sales office	192.168.120.176/29 192.168.120.184/29	Connection Free
- (4) Sa	(4) Sales West	8	9	Pv4	Utilization Fit Low	>-	None	0	Western Sales Region	192.168.120.192/29 192.168.120.200/29	Connection Free

FIG. 24

Network	Address Blocks	Size	Status	Aggregate Blocks	Aggregate with Descendants	Addresses	Used	Total	%Utilization
(4) Acme	192.168.120.144 /28	16	Free	192.168.120.144 /28	192.168.120.0 /24	Local	20	64	н .
	192.168.120.208 /28 192.168.120.224 /30	16	Free Connection	192.168.120.204 <i>1</i> 27		Agg.	186	256	72.656%
	192.168.120.228 /30	4 ∞ ;	Free .						
	192.168.120.240 /28	16	Delegated						
- (4) Accounting	192.168.120.128 /29 192.168.120.136 /29	∞ ∞	Connection Free	192.168.120.128 /28	192.168.120.128 /28		8	16	20%
(4) Engineering	192.168.120.64 /26	64	Connection	192.168.120.64 /26	192.168.120.64 /26		64	64	100%
1 - (4) LAB	10.10.10.0 /24	256	Allocated	10.10.10.0 /24	10.10.10.0 /24		256	256	100%
(4) Headquarters	192.168.120.0 /26	64	Connection	192.168.120.0 /26	192.168.120.0 /26		64	64	100%
(4) Manufacturing						Local Agg.	0 0	0 0	
I - (4) Assembly Line							0	0	
(4) Sales	192.168.120.160 /29	8 8	Connection	192.168.120.160 /28	192.168.120.160 /27 192.168.120.192 /28	Local	14	16	
	192.168.120.170 /30 192.168.120.172 /30	2 4	Free Connection			Agg.	္က ဒိ	48	62.5%
-(4) Sales East	192.168.120.176 /29 192.168.120.184 /29	∞ ∞	Connection Free	192.168.120.176/28	192.168.120.176/28		∞	16	%09
L -(4) Sales West	192.168.120.192 /29 192.168.120.200 /29	8 8	Connection Free	192.168.120.192/28	192.168.120.192/28		∞	16	50%

Acme Router & Rocket, Inc.

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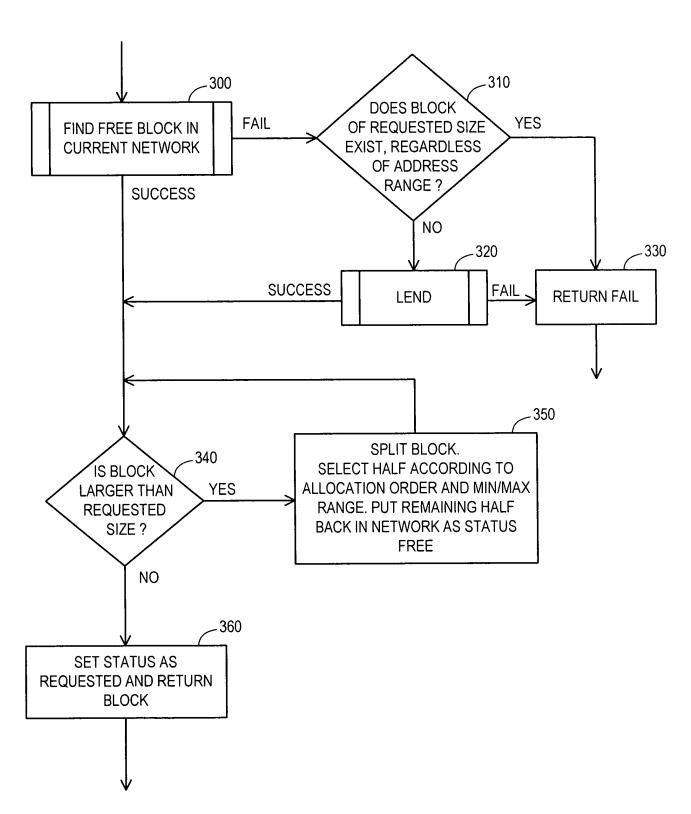
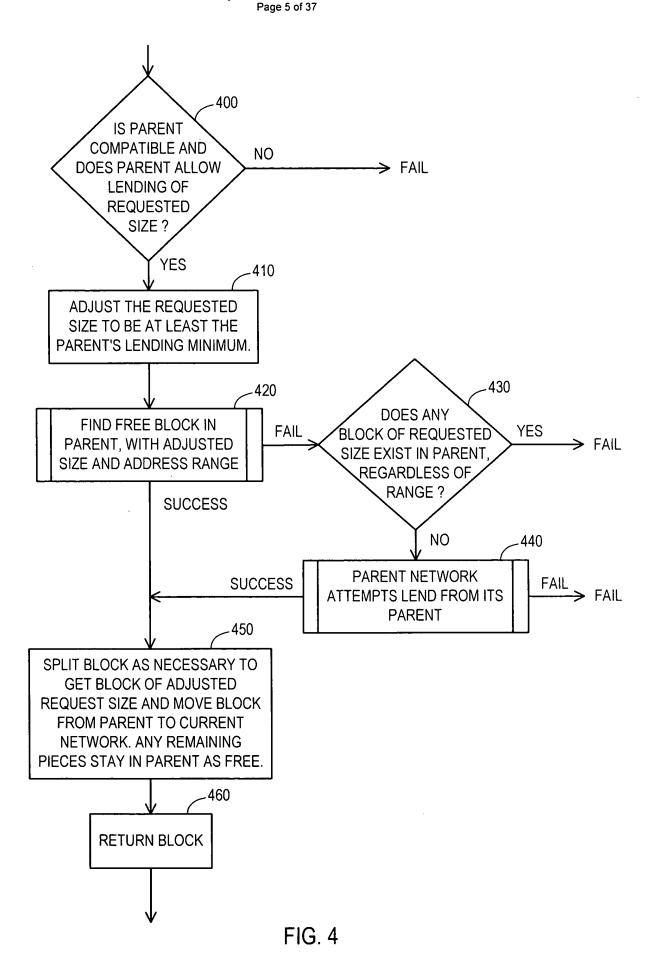
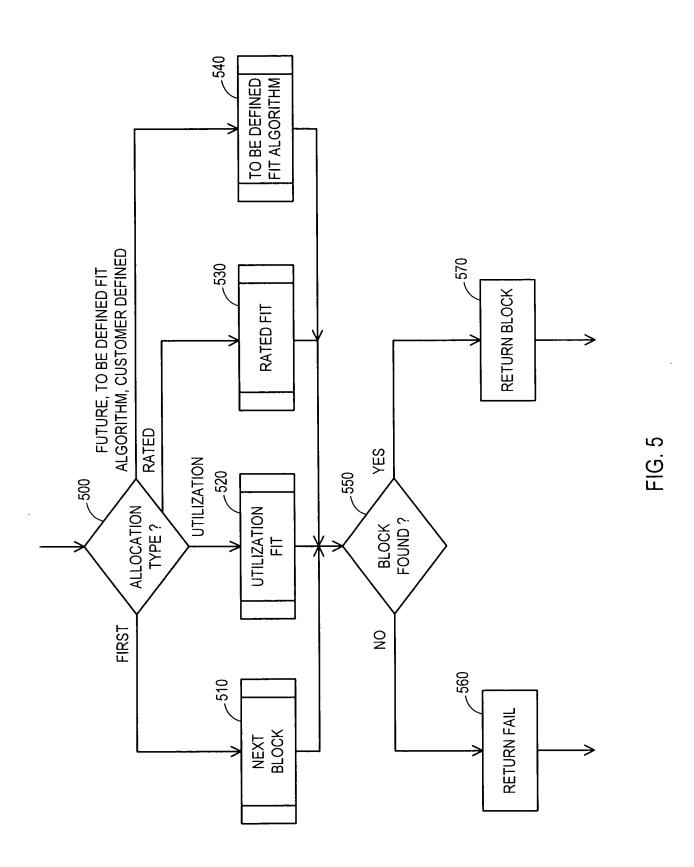


FIG. 3



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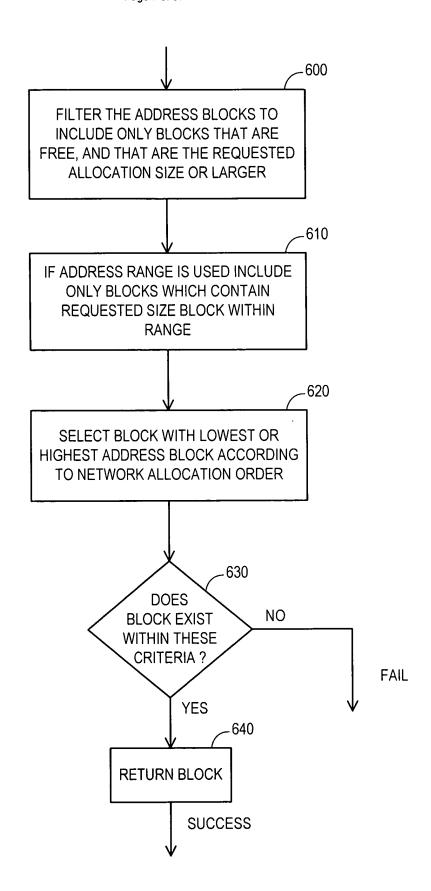


FIG. 6

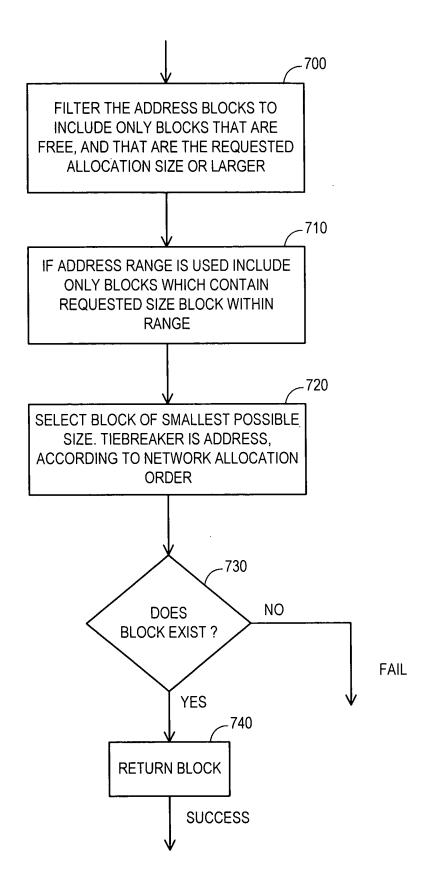


FIG. 7

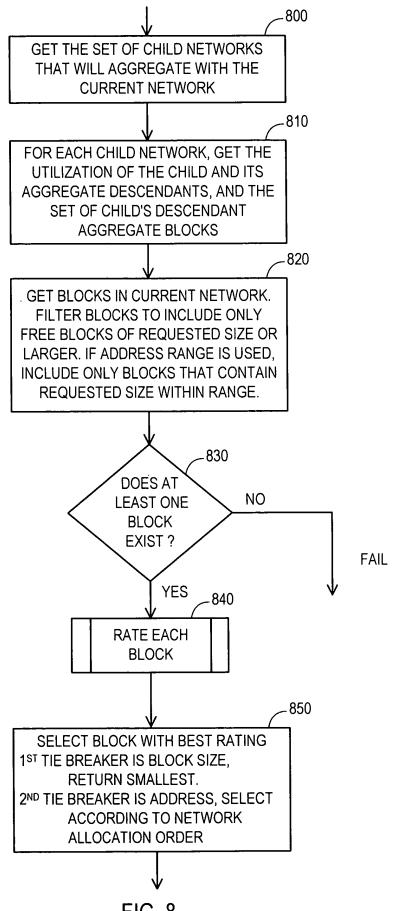


FIG. 8

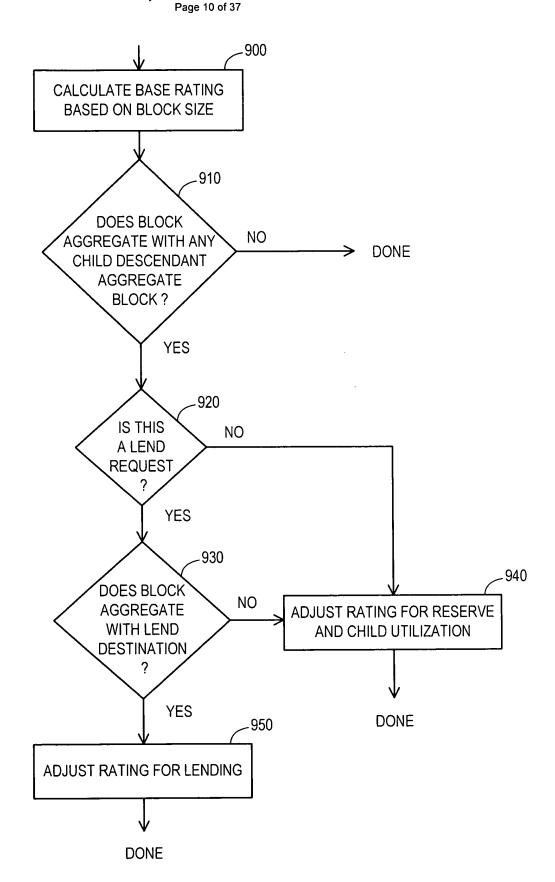


FIG. 9

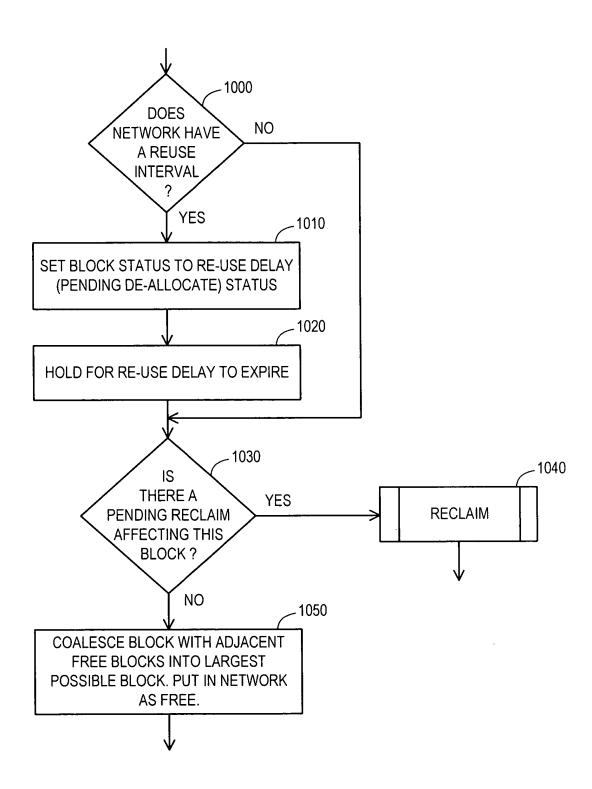


FIG. 10

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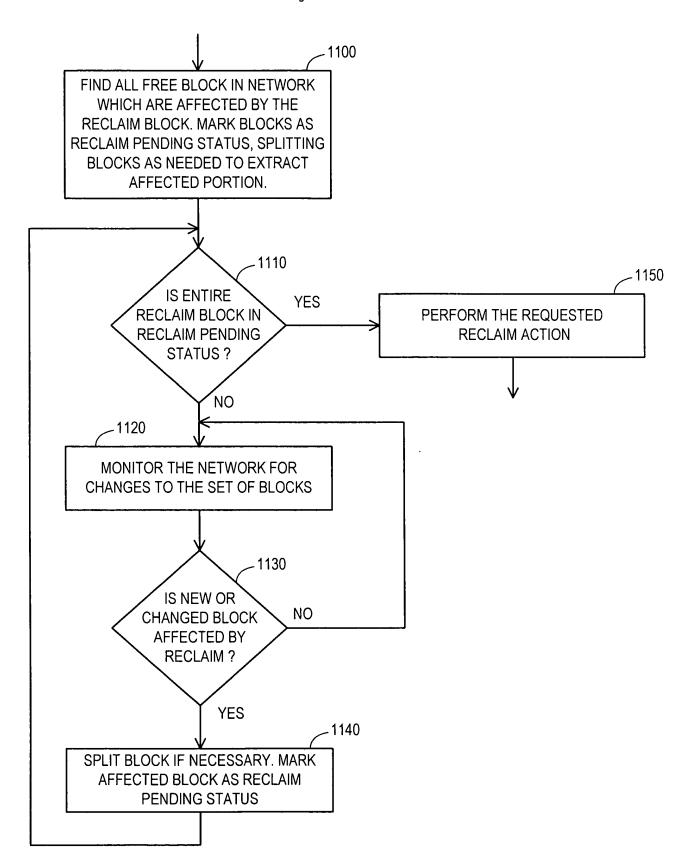
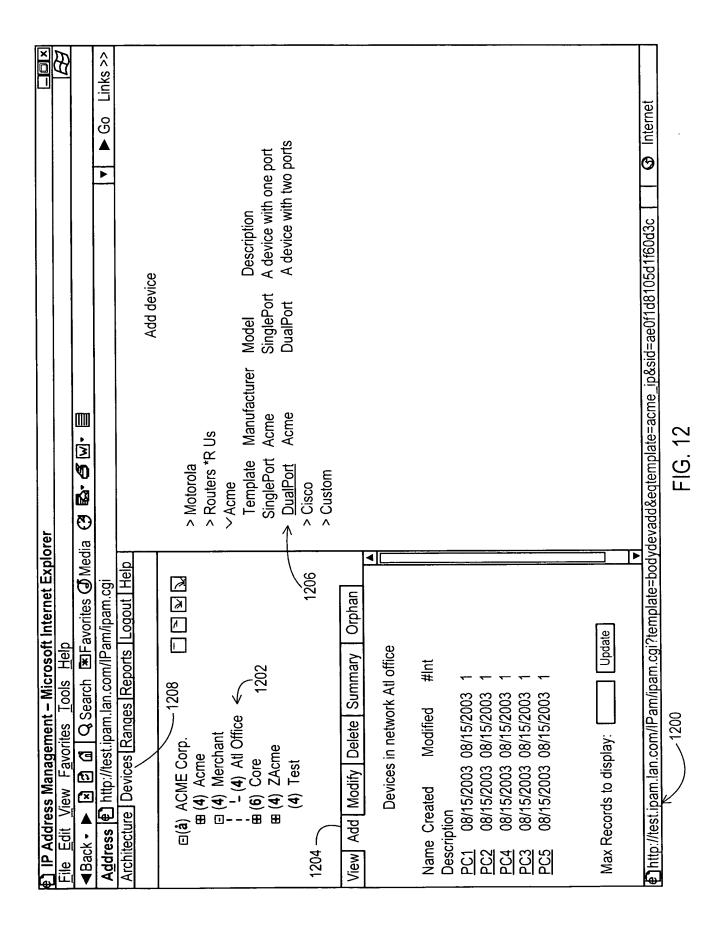
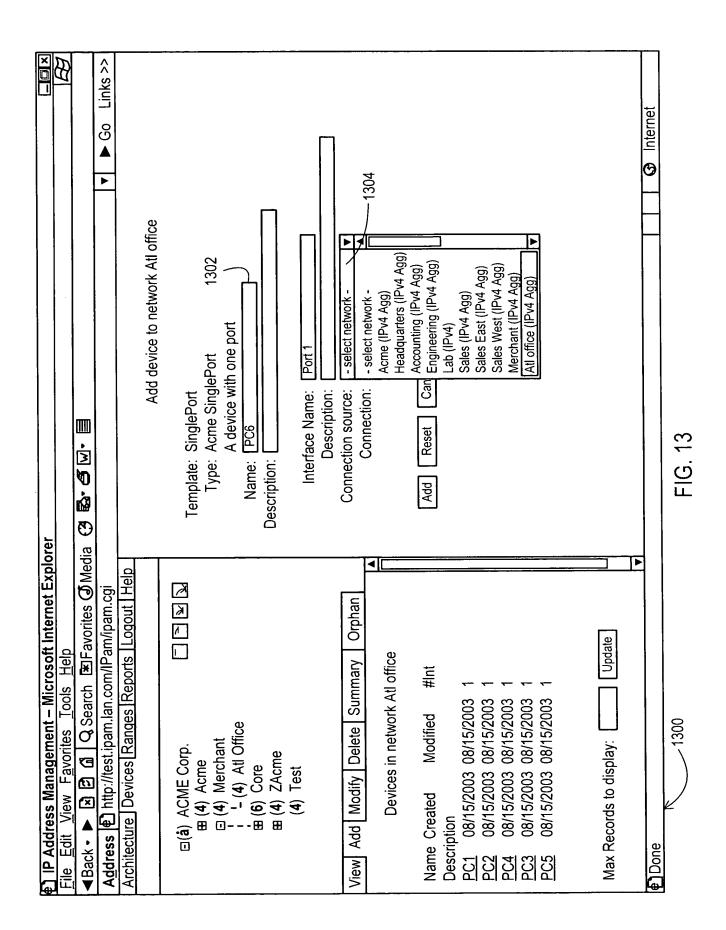
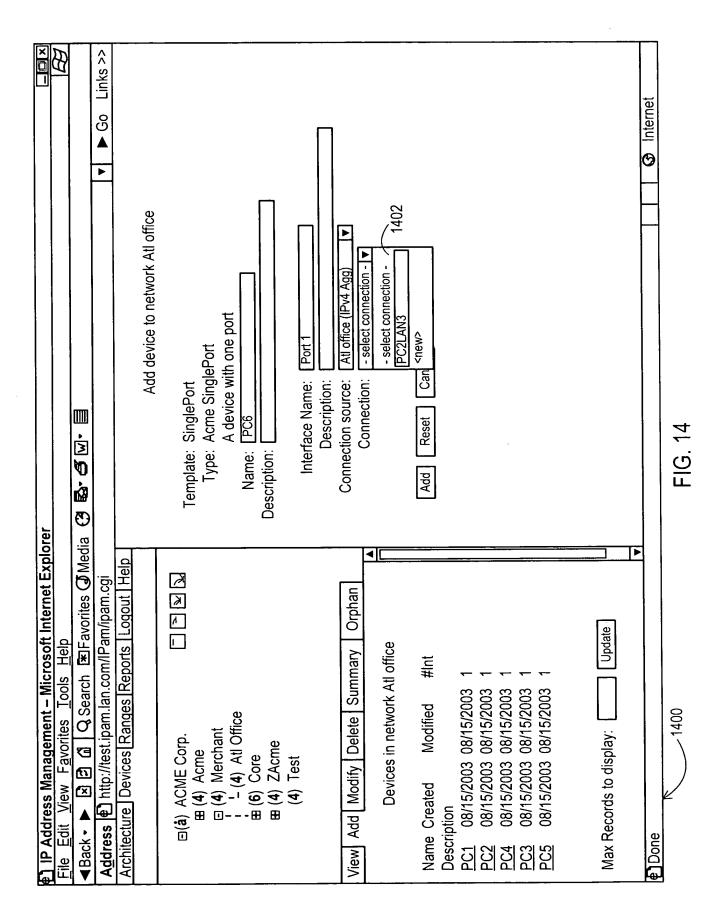
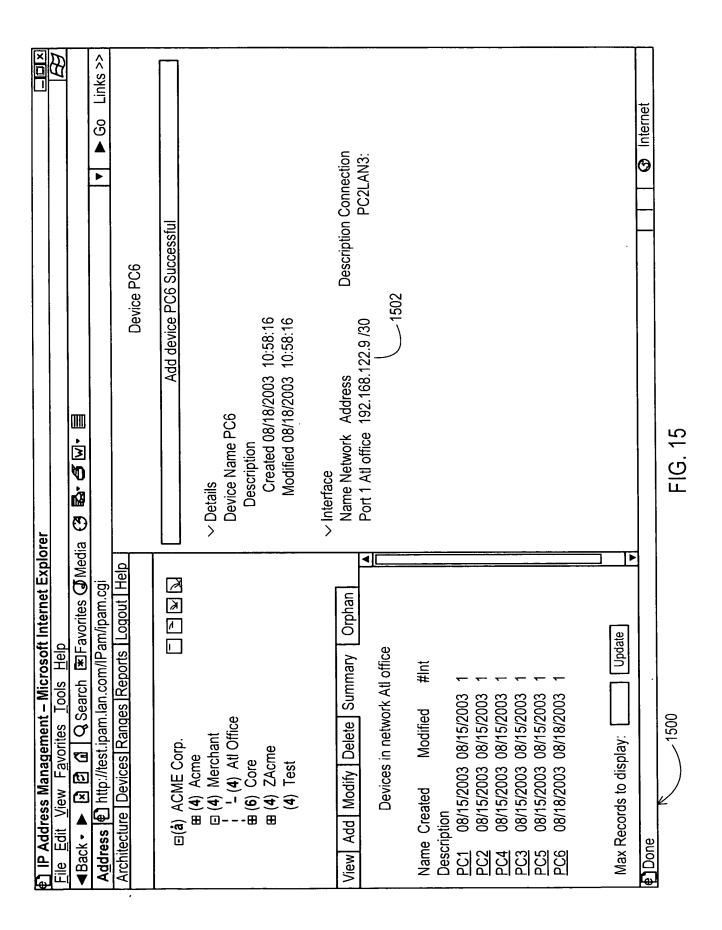


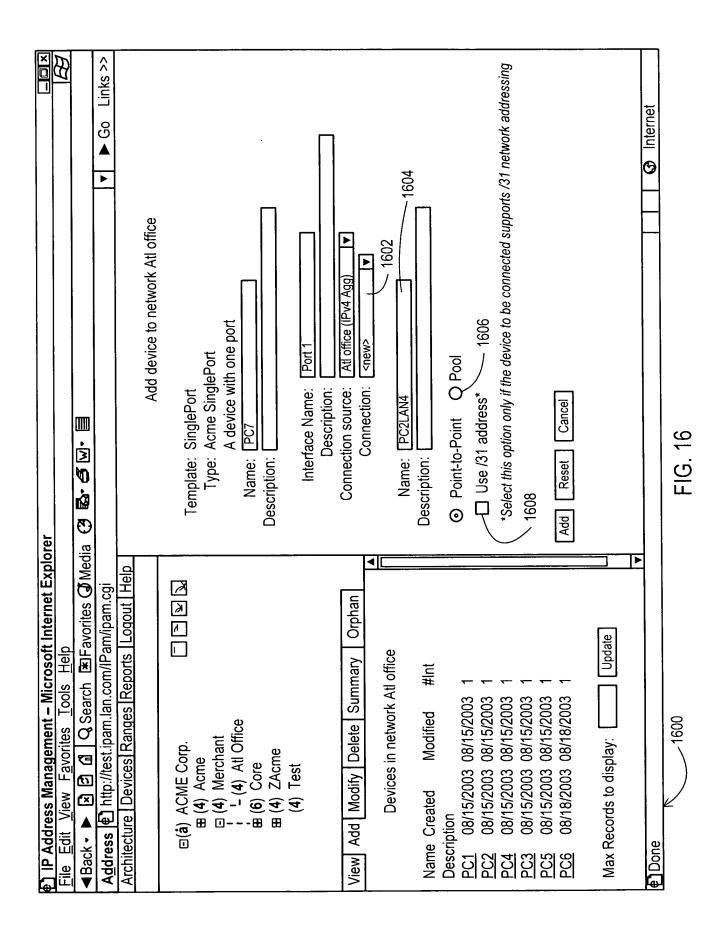
FIG. 11

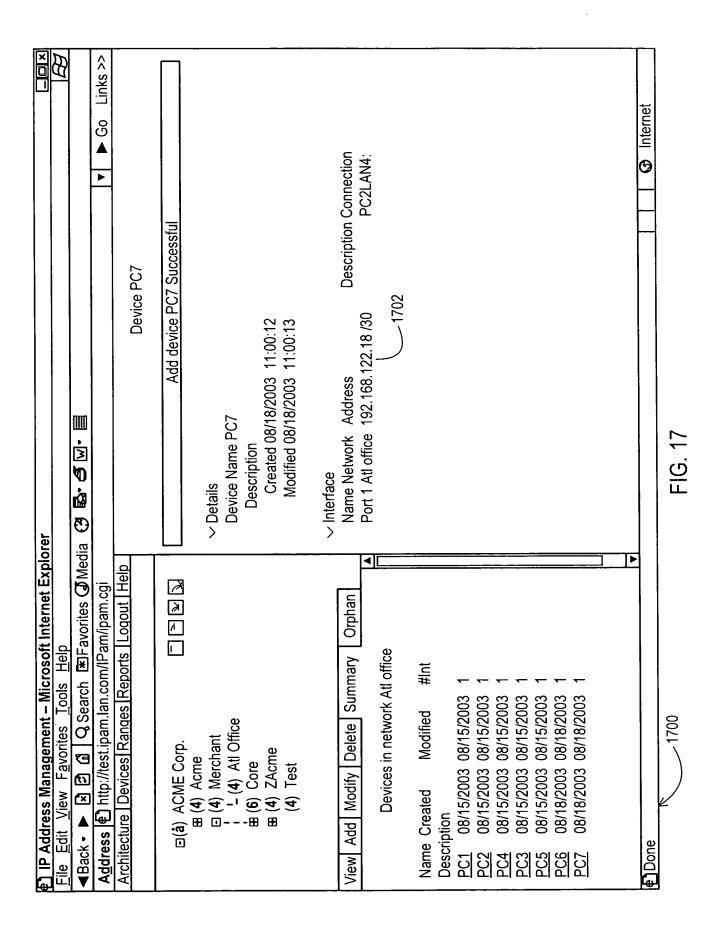


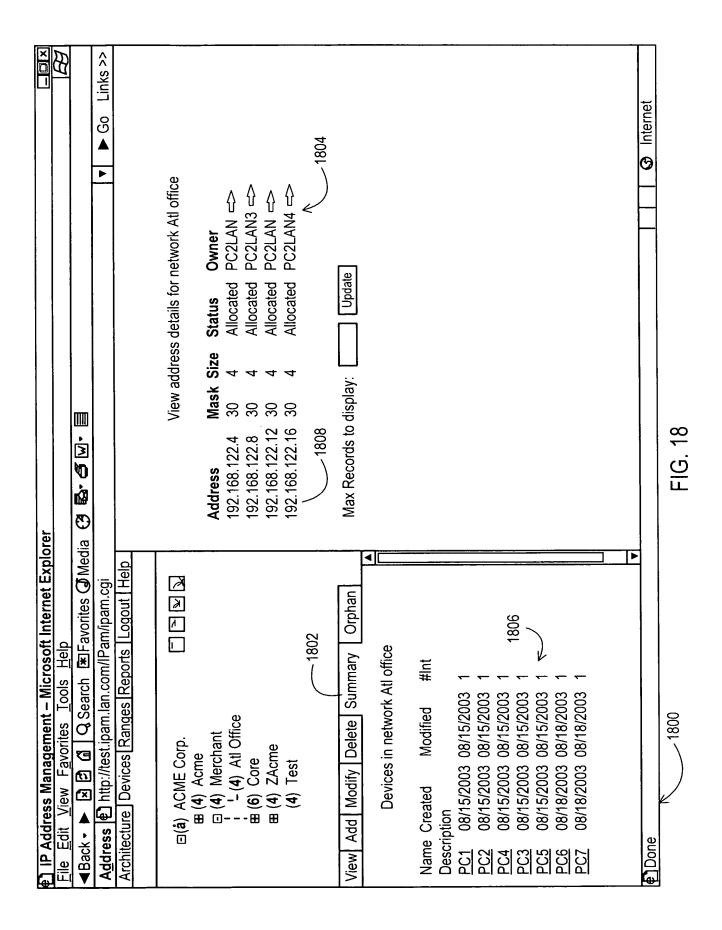


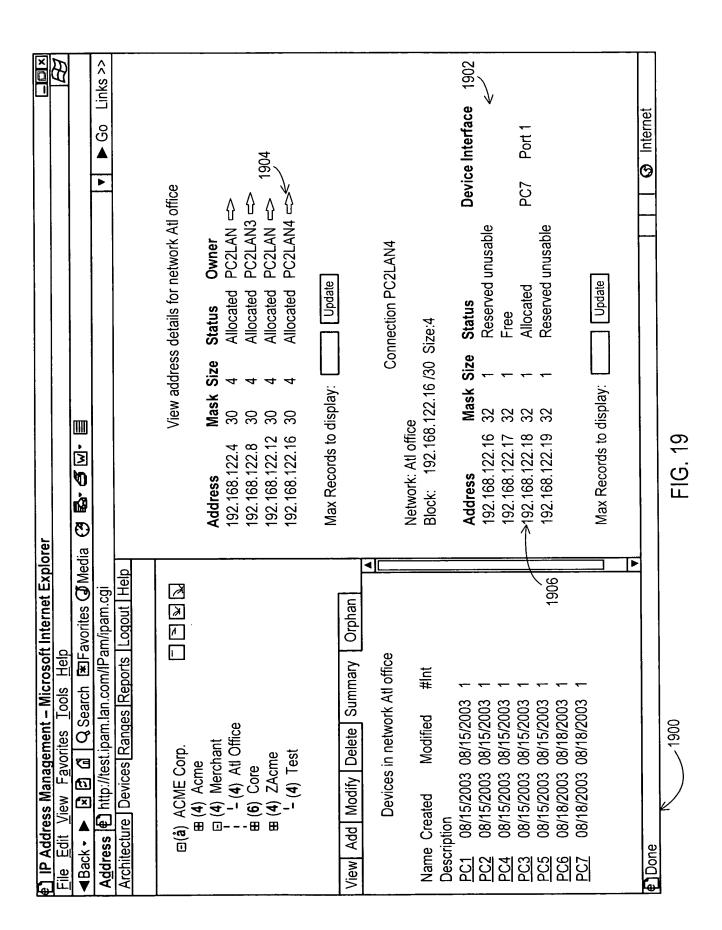


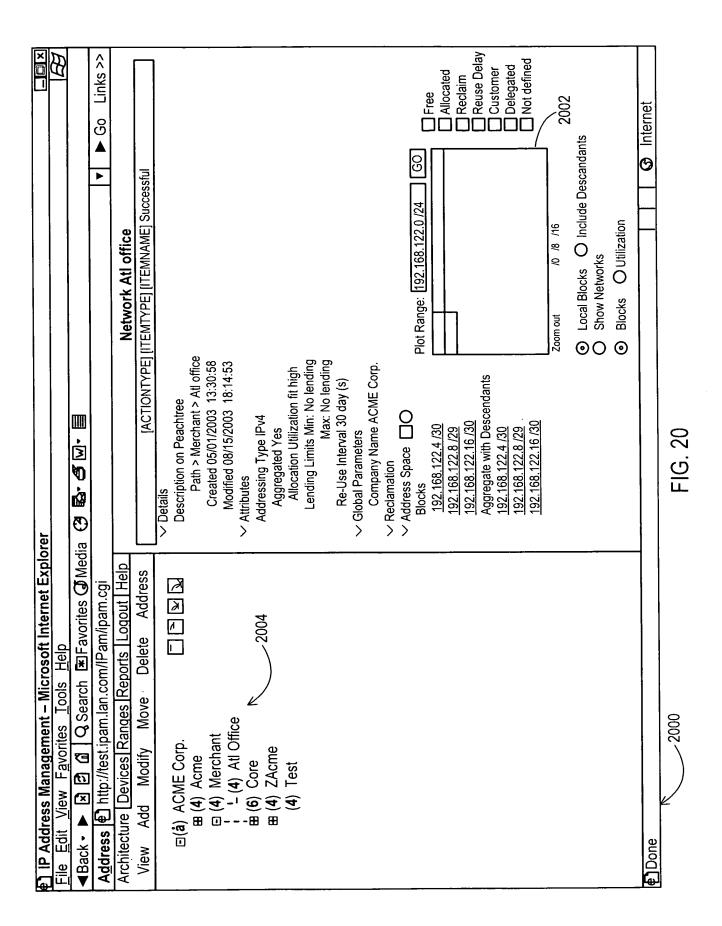


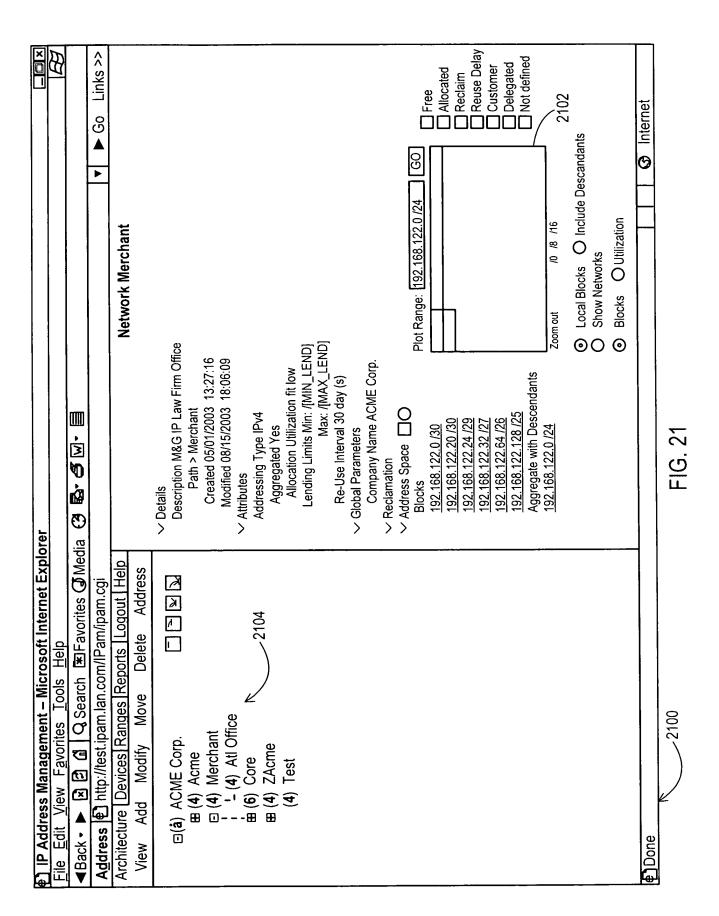


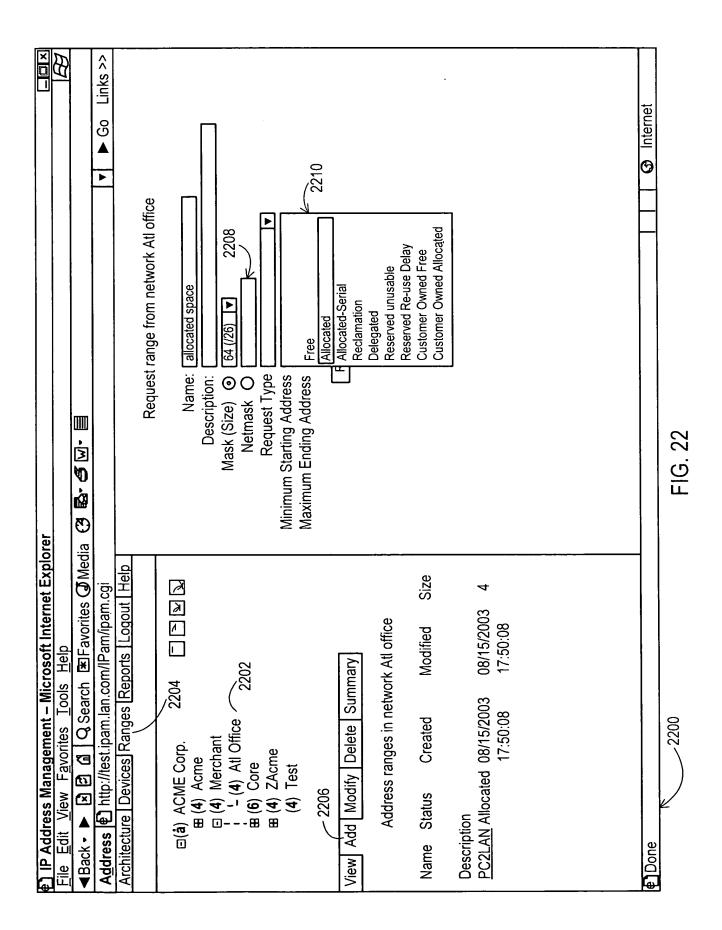


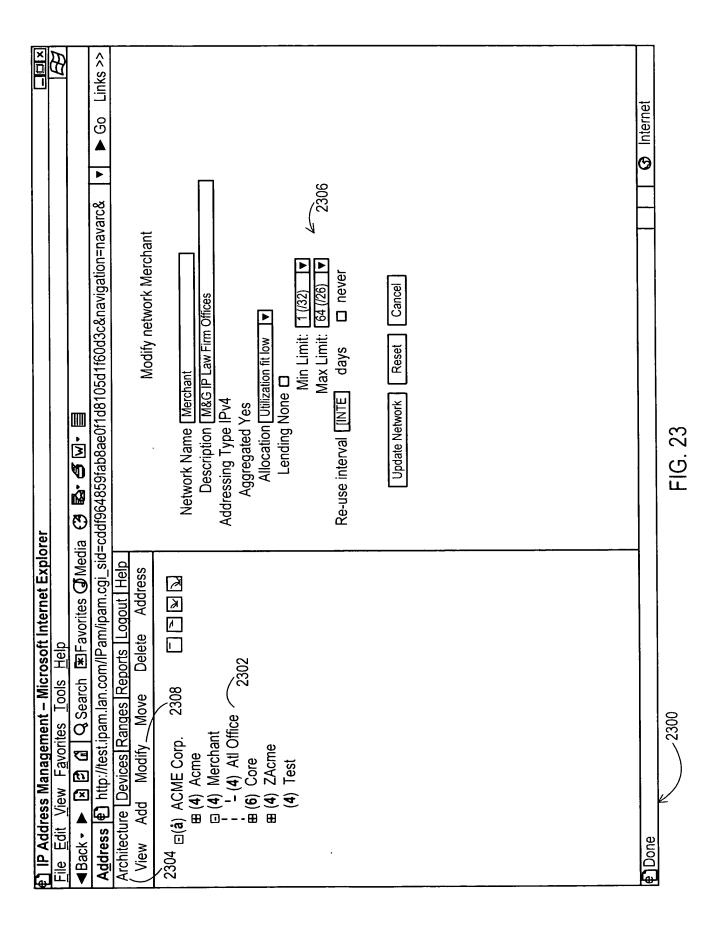




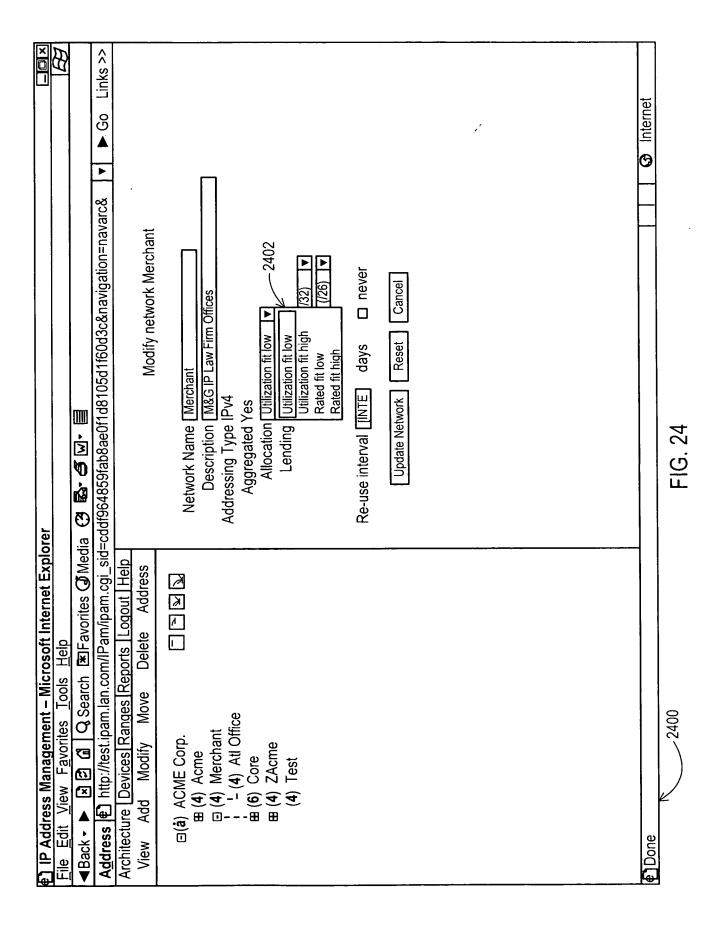


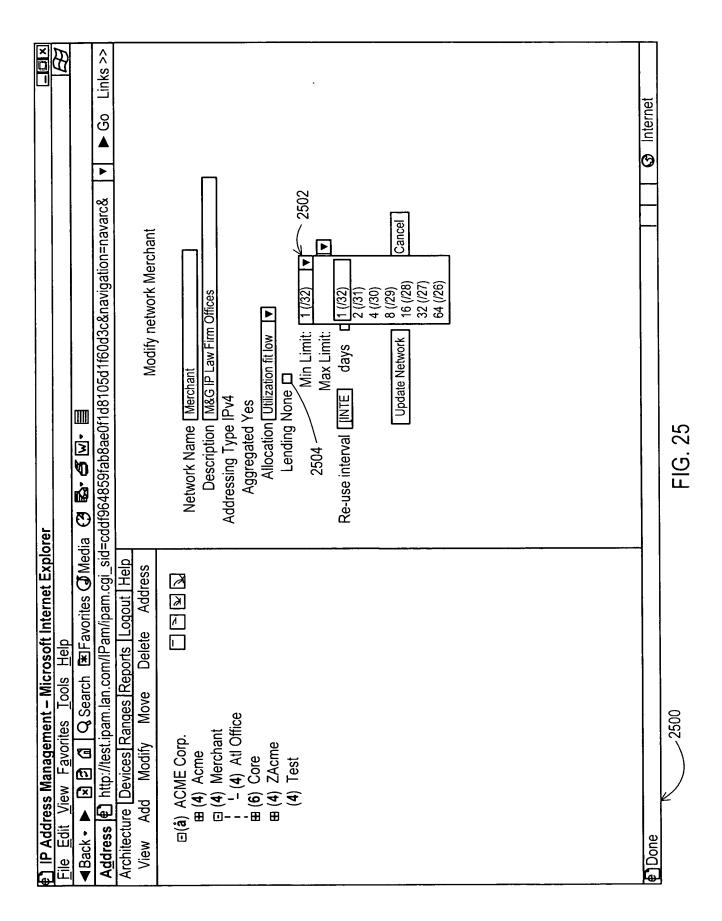


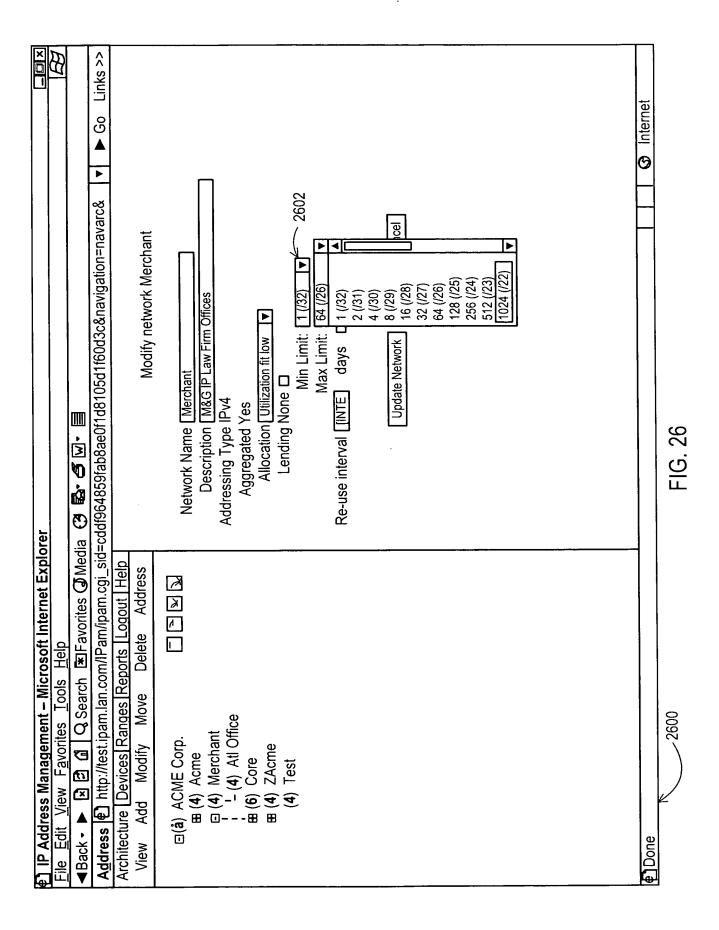


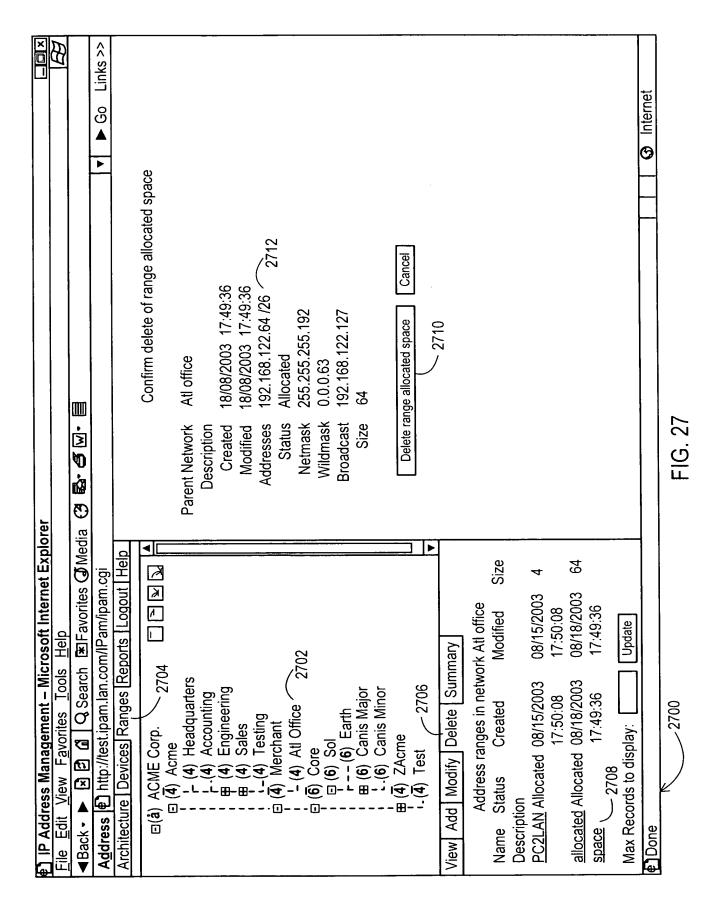


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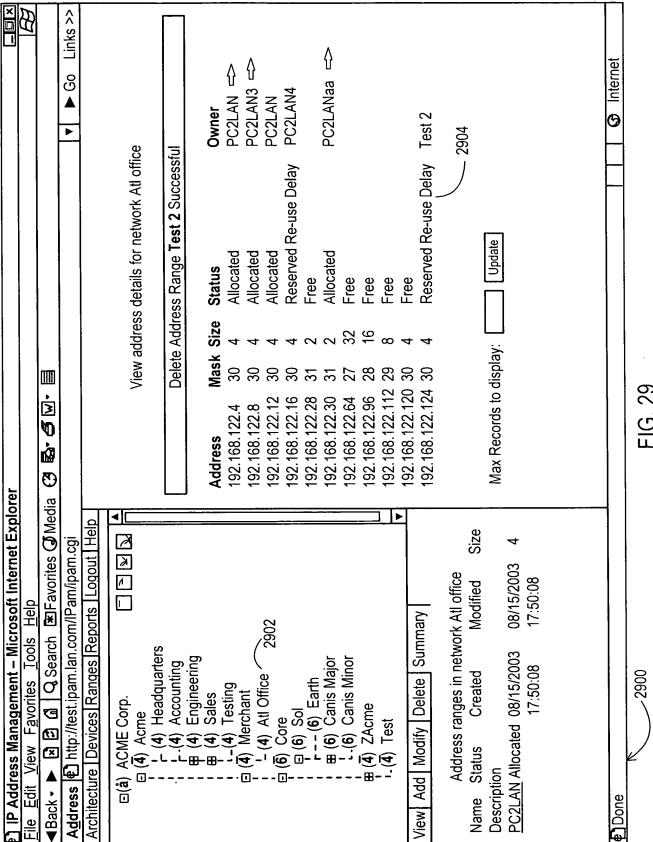


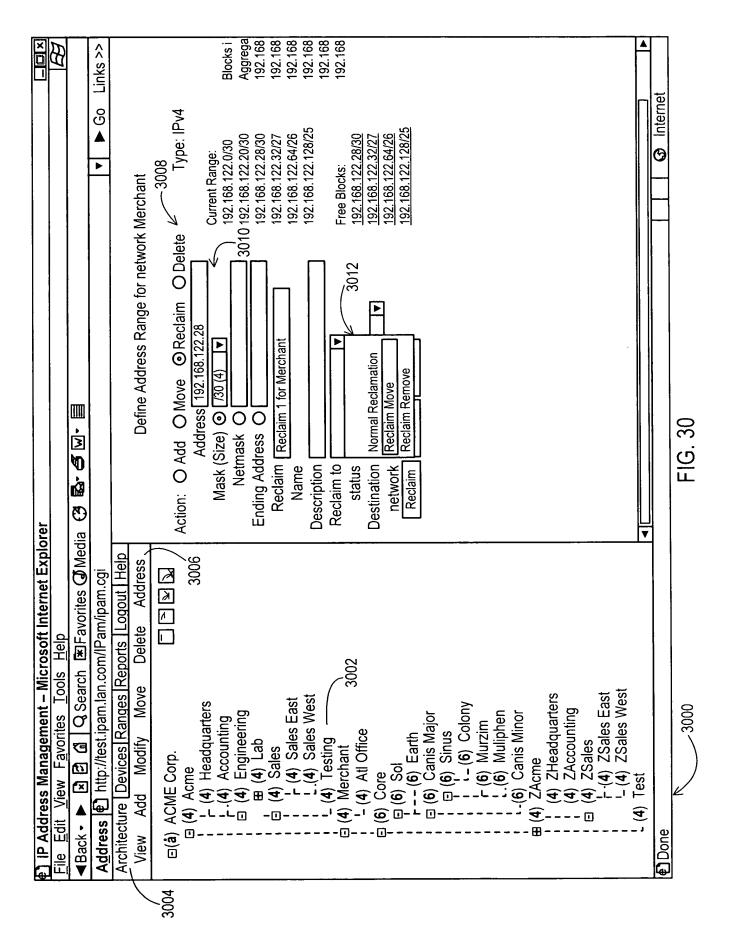


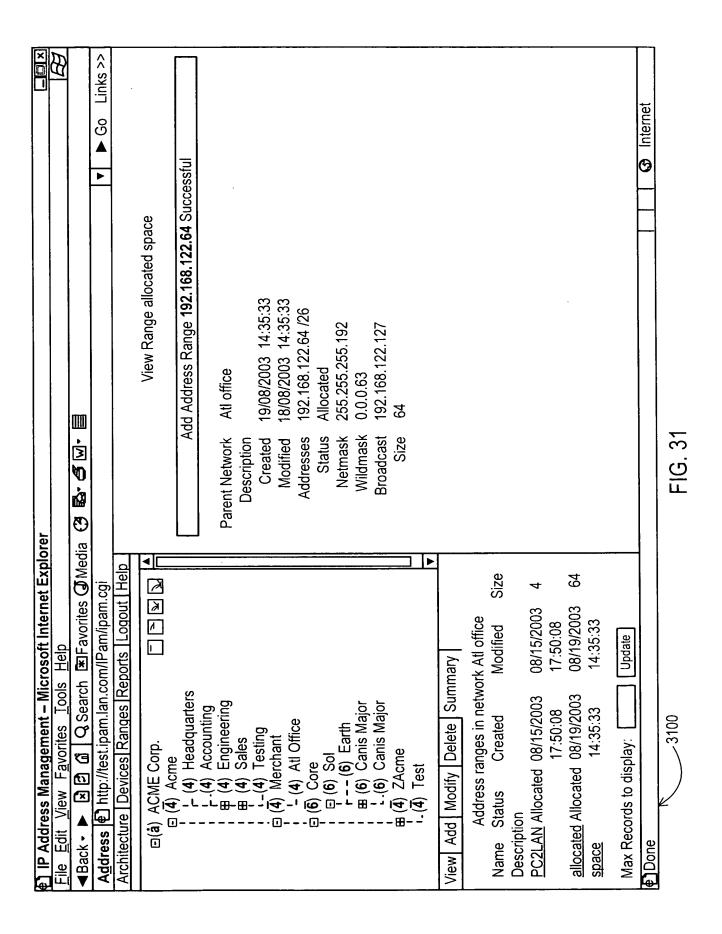




(A) IP Address Management - Microsoft Internet Explorer	in the contract of the contrac	× D T
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7,2800	FIG. 28	







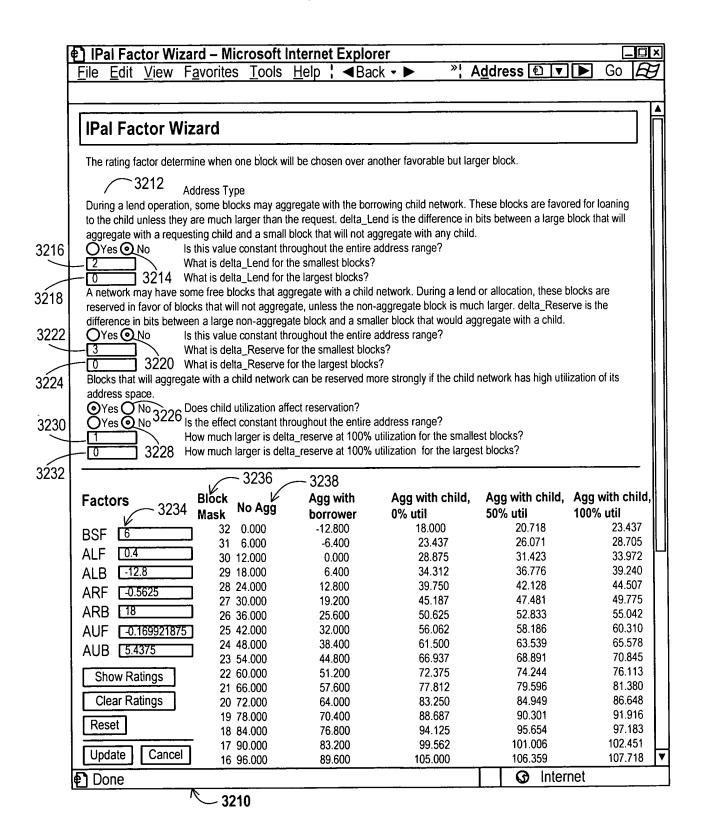
P | IPal Admin - Microsoft Internet Explorer File Edit View Favorites Tools Help ■Back • ▶

☑ ② ⑥ □ User: admin **IPal Rated Fit Factors** ✓ System Rated Fit Factors BSF ALF ALB **ARF ARB** AUF **AUB** Type **Network Colors** -0.169921875 5.4375 IPv4 EDIT 6 -12.8 -0.5625 0.4 18 IPv6 EDIT 7 -0.54688 70 -128 -0.9 116.1563 √ View ASN EDIT 0 0 0 Define Database Fields - 3204 - 3202 User Interface Restore √ Users Change User Password Roles User Accounts ✓ Equipment templates **Equipment Templates** → Database Backup Restore Copy **Logout** Internet - 3200

FIG. 32

Title: Methods, Computer Systems, and Computer Readable Media for Controlling the Status of Network Address Space Attorney Docket No.: 60088.0002US01

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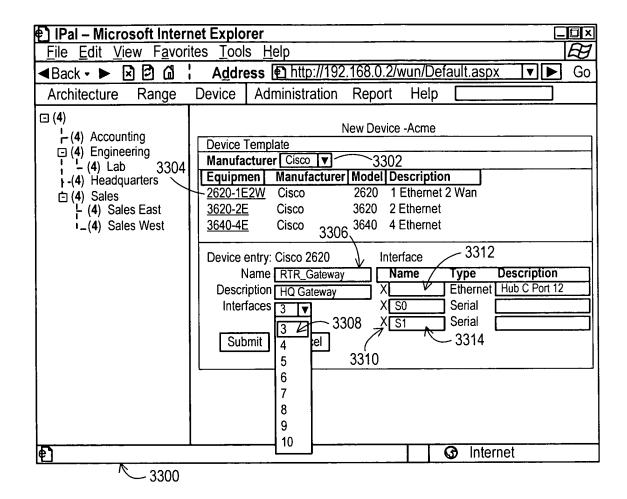


FIG. 33

IPal – Microsoft Internet Explorer File Edit View Favorites Tools Help Address http://192.168.0.2/wun/Default.aspx ■Back • ► Go Architecture Range Device Administration Report Help **□** (4) Device -Acme (4) Accounting (4) Engineering (4) Lab Reset Add Query:3, Limit: 500, Total: 3 -(4) Headquarters Created Modified Description Name Network Edit X Engineering 8/25/2003 8/25/2003 Engineering Router RTR Engr (4) Sales East 8/28/2003 | 8/28/2003 | HQ Gateway RTR Gateway | Edit | X | Acme i_(4) Sales West Edit X Acme 8/25/2003 8/25/2003 Acme Main Router RTR Main Interface Name Network Connection Address Description 3402 _ E0 Hub C Port 12 ு_ற SO **Ի**ը Տ1 Done 🌓 Internet

FIG. 34

- 3400

Pal - Microsoft Inter	net Explorer
<u>File Edit View Favor</u>	tes Tools Help
■Back • ► ☑ ☑ ⑥	Address ♠ http://192.168.0.2/wun/Default.aspx ▼ ► Go
Architecture Range	Device Administration Report Help
□ (4) □ (4) Accounting □ (4) Engineering □ (-4) Lab □ (-4) Headquarters □ (4) Sales □ (4) Sales East □ (-4) Sales West	Device: RTR_Gateway Interface: E0
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3500	

FIG. 35